Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) A pharmaceutical composition comprising a molecule comprising a fucose group in an α1,2 linkage, an α1,3 linkage or an α1,4 linkage to a galactose group and a pharmaceutically acceptable carrier.

2. (Original) The composition of claim 1 where in the fucose is contained within an LNF-I group, an 2'FL group, an LNF-I group, an LNF-II group, an 3'FL group, an LNF-III group, an LDFH-I group, a LDFT group or a variant thereof in which the Glc at the reducing end is replaced with GlcNAc.

3. (Currently amended) The composition of ~~any of the forgoing claims~~ claim 1 wherein the molecule is a glycan, a glycolipid, a glycoprotein, a glycosaminoglycan or a mucin.

4. (Currently amended) The composition of ~~any of the forgoing claims~~ claim 1 wherein the molecule comprises at least two different groups selected from an LNF-I group, an 2'FL group, an LNF-I group, an LNF-II group, an 3'FL group, an LNF-III group, an LDFH-I group, a LDFT group or a variant thereof in which the Glc at the reducing end is replaced with GlcNAc.

5-6. (Canceled)

7. (Currently amended) The composition of ~~any of the forgoing claims~~ claim 1 wherein the groups are covalently linked to a protein in an O-link to Ser or Thr or an N-link to Asn.

8. (Currently amended) The composition of ~~any of the forgoing claims~~ claim 1 wherein the composition does not contain a mammalian milk.

9. (Canceled)

10. (Original) A pharmaceutical composition comprising a purified protein modified to include at least two different groups selected from:
2'-Fucosyllactose;
Lacto-N-fucopentaose I;

Lacto-N-fucopentaose II;
3'-Fucosyllactose;
Lacto-N-fucopentaose II;
Lacto-N-difucohexaose I;
Lactodifucotetraose;
LactoN-tetraose;
LactoN-neotetraose;
3'-Sialyllactose;
3'-Sialyllactosamine;
6'-Sialyllactose;
6'-Sialyllactosamine;
Sialyllacto-N-neotetraose c;
Monosialyllacto-N-hexaose;
Disialyllacto-N-hexaose I;
Monosialyllacto-N-neohexaose I;
Monosialyllacto-N-neohexaose II
Disialyllacto-N-neohexaose
Disialyllacto-N-tetraose;
Disialyllacto -N-hexaose II;
Sialyllacto-N-tetraose a;
Disialyllacto-N-hexaose I;
Sialyllacto-N-tetraose b;
3'-Sialyl-3-fucosyllactose;
Disialomonofucosyllacto-N-neohexaose;
Monofucosylmonosialyllacto-N-octaose (sialyl Lea);
Sialyllacto-N-fucohexaose II;
Disialyllacto-N-fucopentaose II;
Monofucosyldisialyllacto-N-tetraose, or a variant thereof wherein Glc at the reducing end is replaced with GlcNAc.

11-14. (Canceled)

15. (Currently amended) The composition of ~~any of the forgoing claims~~ claim 1 which is a synthetic composition.

16-19. (Canceled)

20. (Original) A pharmaceutical composition comprising a purified protein modified to include at least two different groups selected from:
2'-Fucosyllactose;
Lacto-N-fucopentaose I;
Lacto-N-fucopentaose II;

3'-Fucosyllactose;
Lacto-N-fucopentaose II;
Lacto-N-difucohexaose I;
Lactodifucotetraose;
2'-FLNac, or a variant thereof in which the Glc at the reducing end is replaced with GlcNAc;
wherein the protein is not modified to contain any other oligosaccarides.

21. (Original) A synthetic nutritional composition comprising a glycan, a glycolipid, a glycoprotein, a glycosaminoglycan or a mucin that comprises at least two different groups selected from an LNF-I group, and 2'FL group, an LDFH-I group and a LDFT group or a variant thereof in which the Glc at the reducing end is replaced with GlcNAc.

22-27. (Canceled)

28. (Currently amended) A synthetic ~~nutrition~~ nutritional composition comprising a purified protein modified to include a group selected from: a Lacto-N-fucopentaose I group, a Lacto-N-fucopentaose II group, a 2-Fucosyllactose group, a 3-Fucosyllactose group, a Lacto-N-fucopentaose II group, a Lacto-N-difucohexaose I group, and a Lactodifucotetraose group or a variant thereof in which the Glc at the reducing end is replaced with GlcNAc.

29-32. (Canceled)

33. (Currently amended) A method for treating or reducing the risk of infection, the method comprising administering the composition of ~~any of the forgoing claims~~ claim 1 wherein said composition is not a mammalian milk.

34. (Original) The method of claim 33 wherein the composition comprises 2'FL or 2'FLNAc.

35. (Original) The method of claim 34 wherein the molecule comprises a protein to which 2'FL and/or 2'FLNAc are directly or indirectly covalently attached.

36. (Original) The method of claim 33 wherein the infection is caused by *V. cholerea* or *C. jejuni.*

37. (Original) The method of claim 33 wherein the infection in an enteric infection.

38. (Original) A method for reducing the risk of enteric disease in a patient, the method comprising,
(a) identifying the two most prevalent agents capable of causing enteric disease in the geographic location of the patient;

(b) administering to the patient a composition comprising a molecule comprising a first glycan which interferes with the binding to epithelial cells of the first of the two most prevalent agents and a second glycan which interferes with the binding to epithelial cells of the second of the two most prevalent agents wherein said composition is not breast milk.

39. (Original) A method for reducing the risk of enteric disease in a patient, the method comprising,

(a) identifying the two most prevalent agents capable of causing enteric disease in the geographic location of the patient;

(b) administering to the patient composition comprising

i) a first molecule comprising a first glycan which interferes with the binding to epithelial cells of the first of the two most prevalent agents; and

ii) a second molecule glycan which interferes with the binding to epithelial cells of the second of the two most prevalent agents;

wherein said composition is not breast milk.

40. (Original) A yeast cell harboring a recombinant vector comprising a nucleotide sequence encoding GDP-mannose 4, 6 dehydratase and a nucleotide sequence encoding GDP-L-fucose synthetase.

41. (Original) The yeast cell of claim 40 wherein the GDP-mannose 4, 6 dehydratase is *H. pylori* GDP-mannose 4, 6 dehydratase.

42. (Currently amended) The yeast cell of claim 40 ~~or claim 41~~ wherein the GDP-L-fucose synthetase is *H. pylori* GDP-L-fucose synthetase.

43. (Currently amended) The yeast cell of ~~any of claims 40-42~~ claim 40 wherein the yeast cell harbors a nucleic acid molecule encoding a GDP-fucose/GMP antiporter fusion protein.

44. (Currently amended) The yeast cell of ~~any of~~ claim 43 wherein the fusion protein comprises a golgi-membrane location sequence.

45. (Original) The yeast cell of claim 43 wherein the golgi-membrane location sequence is from Vrg4p.

46. (Original) An isolated nucleic acid molecule encoding a fusion protein comprising at least a first portion and a second portion, the first portion comprising the active domain of a GDP-fucose/GMP antiporter and the second portion comprising a golgi localization sequence.

47. (Canceled)

48. (Original) A yeast harboring the isolated nucleic acid molecule of claim 46.

49. (Original) The yeast of claim 48 further harboring a nucleic acid molecule encoding a fucosyltransferase or a galactosyltransferase.

50. (Original) The yeast of claim 49 wherein the fucosyltransferase is selected from:
Homo sapiens fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, Bombay phenotype included) (FUT1);
Homo sapiens fucosyltransferase 2 (secretor status included) (FUT2);
Homo sapiens fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group included) (FUT3);
Homo sapiens fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) (FUT4);
Homo sapiens fucosyltransferase 5 (alpha (1,3) fucosyltransferase) (FUT5);
Homo sapiens fucosyltransferase 6 (alpha (1,3) fucosyltransferase) (FUT6);
Homo sapiens fucosyltransferase 7 (alpha (1,3) fucosyltransferase) (FUT7);
Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8);
Homo sapiens fucosyltransferase 9 (alpha (1,3) fucosyltransferase) (FUT9); and
Homo sapiens protein o-fucosyltransferase (POFUT1).

51. (Canceled)